

AUDIOLOGY 823
COCHLEAR IMPLANTS AND HEARING ASSISTANCE TECHNOLOGIES
SPRING 2012

Instructor: Sandy Keener, 588-5730 **Office:** 4th floor Miller

Course Time: Wednesday 1:30-3:20 PM Room: 1004 Smith

Purpose: This course will cover the principles and methods of assessment, candidacy, surgery, programming and rehabilitation of patients receiving cochlear implants. In addition, hearing assistance technologies such as large area systems and alerting devices will be covered, with emphasis on classroom amplification. A review of pediatric amplification will be provided.

Format: 1. Lectures and Discussion *your input and experiences are an important part of this class

2. Mid-Term and Final Examination

3. Projects and student presentations

Topics: The following topics will be covered:

I. Cochlear Implants in Children and Adults

A. Candidacy

B. Surgery/Programming

C. Rehabilitation/Troubleshooting

Course Objectives/Learning Outcomes: To provide the student with an understanding of the theories, techniques and clinical applications of cochlear implants and hearing assistance technologies. Students will acquire the preparatory skills to participate in a cochlear implant team to recommend implantation as an option and perform mapping. In addition, students will acquire the preparatory skills to assess the need for and implement the use of hearing assistance technologies.

The following ASHA Standards will be met or partially met by successful completion of this course:

Standard IV-B

B2 Patient characteristics and how they relate to clinical service

B3 Educational, vocational, social, and psychological effects of hearing impairment and their impact on the development of the auditory and vestibular systems

B6 Phonologic, morphologic, syntactic, and pragmatic aspects of human communication associated with hearing impairment

B16 Medical/surgical procedures for treatment of disorders affecting auditory and vestibular systems

B17 Health care and educational delivery systems

B18 Ramifications of cultural diversity on professional practice

B20 Laws, regulations, policies, and management practices relevant to the profession of Audiology

B21 Manual communication, use of interpreters, and Assistive technology

Standard IV-C

C1 Interact effectively with patients, families, and other appropriate individuals and professionals

C2 Prevent the onset and minimize the development of communication disorders

Standard IV-D

D7 Perform audiologic assessment using physiologic, psychophysical and self-assessment

Standard IV-E

E1 Interact effectively with patients, families and other appropriate individuals and professionals

- E2 Develop and implement treatment plan using appropriate data
- E3 Discuss prognosis and treatment options with appropriate individuals
- E4 Counsel patients, families, and other appropriate individuals
- E5 Develop culturally sensitive and age-appropriate management strategies
- E6 Collaborate with other service providers in case coordination
- E7 Perform hearing aid, Assistive listening device, and sensory aid assessment
- E8 Recommend, dispense, and service prosthetic and Assistive devices
- E9 Provide hearing aid, Assistive listening device, and sensory aid orientation
- E10 Conduct aural rehabilitation
- E11 Monitor and summarize treatment progress and outcomes
- E12 Assess efficacy of interventions for auditory and balance disorders
- E13 Establish treatment admission and discharge criteria
- E14 Serve as an advocate for patients, families, and other appropriate individuals
- E15 Document treatment procedures and results

Grades: Grades will be determined according to the following:

Presentation	10%	Mid-Term Exam	40%
Final Exam	40%	Lab	10%

Grading menu: 100-90% A 89-80% B 79-70% C 69-60% D
59% and below F

ANY STUDENT IN THIS COURSE WHO, BECAUSE OF A DISABILITY, NEEDS AN ACCOMMODATION IN ORDER TO COMPLETE THE COURSE REQUIREMENTS SHOULD CONTACT THE INSTRUCTOR OR THE ADA/504 COORDINATOR (913-588-7813; TDD 913-588-7963)